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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,334	09/17/2003	Scott Chiu	P16585	4154
	7590 06/22/2007 ASCHOFF & TALWALI	EXAMINER		
50 LOCUST AVENUE NEW CANAAN, CT 06840			JAMAL, ALEXANDER	
NEW CANAA	N, C1 00840		ART UNIT	PAPER NUMBER
•		·	2614	
			·	•
			MAIL DATE	DELIVERY MODE
		•	06/22/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/664,334	CHIU ET AL.			
	Office Action Summary	Examiner	Art Unit			
	·	Alexander Jamal	2614			
	The MAILING DATE of this communication app					
Period fo	Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailling date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 17 Se	eptember 2003.				
	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-26 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
9)🖂	The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority L	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Do	ate			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

Office Action Summary

Application/Control Number: 10/664,334

Art Unit: 2614

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: Transferring a Clock Signal.From a System Side Circuit to a Line Side Circuit in a Telecommunications Device.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1,2,5-10,13-20,23-26 rejected under 35 U.S.C. 102(e) as being anticipated by Krone et al (7003023).

As per claim 1, Krone discloses (Fig. 2), line side 226 and system side 225. They are coupled via isolation barrier 209,210. The system side has first and second clock drivers 214. Krone discloses that the clock signals may implement a differential signal (Col 8 lines 1-6) using complementary signals. Examiner notes (Col 13 line 64 to Col 14 lines 15-35) and Fig. 6b, which show the use of the complementary signals acting as a

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version being the inverted version of the other.

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differential signal. In a differential signal comprised of two complementary signals as implemented by Krone, the signals would add up to a constant voltage value, with one

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As per **claim 9**, it is rejected as per the claim 1 rejection. Additionally (Col 8 lines 25-40) disclose the use of integrated circuits to implement the function shown in Fig. 2, including driver 214 (second IC) and block 216 (first IC).

As per claims 15,19, it is rejected as per the claim 9 rejection.

As per claims 2,10,17,20, complementary signals comprising a differential signal implemented by Krone would have 1 wave (180 degrees out of phase) inverted from the other one.

As per claims 5,18,23, capacitors 209,210 couple the clock signals.

As per claims 6,13,24, the line side circuit (Fig. 2) comprises diode bridge 640 coupled to power supply 220 (Col 14 lines 15-35). This is further shown in either Fig. 6a or 6b with the diodes implemented with transistors.

As per claims 7,25, the power supply comprises third capacitor 645.

As per **claims 8,26**, the line side circuit monitors the telephone line (Col 21 lines 10-25) via Node A 134.

As per claims 14,16, they are rejected as per the claim 8 and 9 rejections.

Claim Rejections - 35 USC § 103

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3,4,11,12,21,22, are rejected under 35 U.S.C. 103(a) as being unpatentable over Krone et al (7003023) as applied to claims 1,2,9,10,19,20.

As per claims 3,4,11,12,21,22, Krone discloses transmitting complementary, inverted (out of phase) clock signals to create a differential signal. However, Krone does not specify the duty cycle of the clock signals.

Complementary clock signals forming a differential signals would be inverted from each other, and as such, the 'on' duty cycle of one would track the 'off' duty cycle of the other.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Jamal whose telephone number is 571-272-7498. The examiner can normally be reached on M-F 9AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis A Kuntz can be reached on 571-272-7499. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and 571-273-8300 for After Final communications.

Examiner Alexander & June 17, 2007